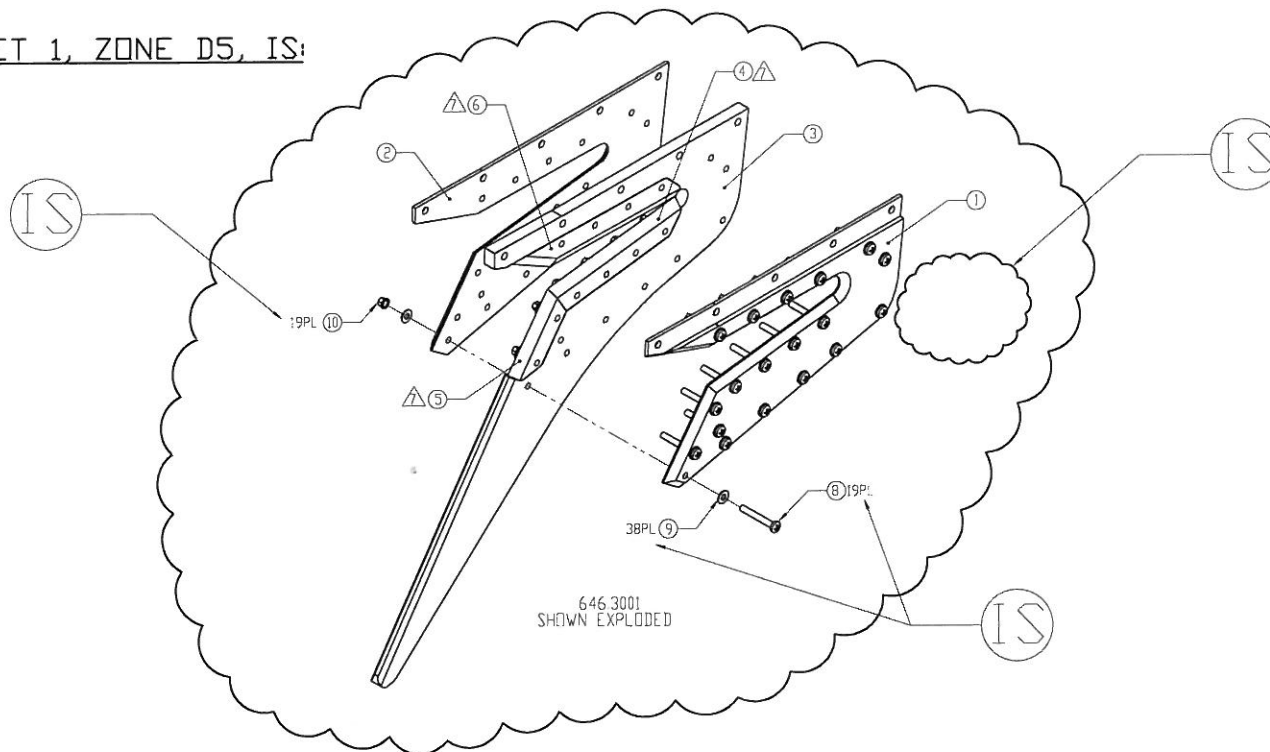


APICAL  
INDUSTRIES, INC.

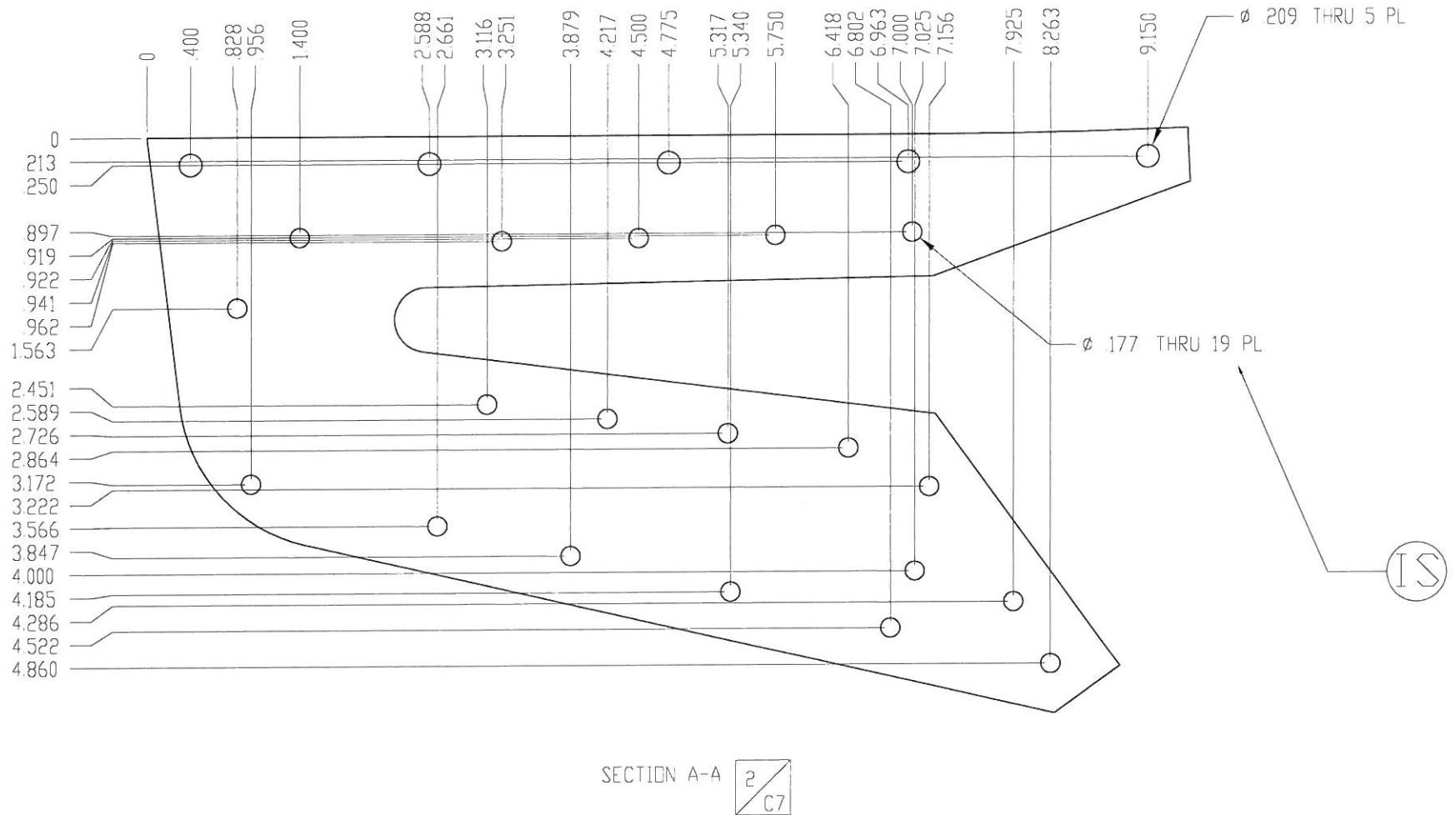
ENGINEERING CHANGE NOTICE NO.		02195		SHEET 1 OF 4	
DWG NO.	646.3000	REV:N/C	PREPARED BY S. HUFF	DATE: 01/05/09	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.
DWG TITLE: LOWER CUTTER ASSY					
APPROVED BY:	ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF:	NEXT ORDER
REASON: REMOVED RIVETS IN FAVOR OF ADDITIONAL SCREWS					
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE					

SHEET 1, ZONE D5, IS:

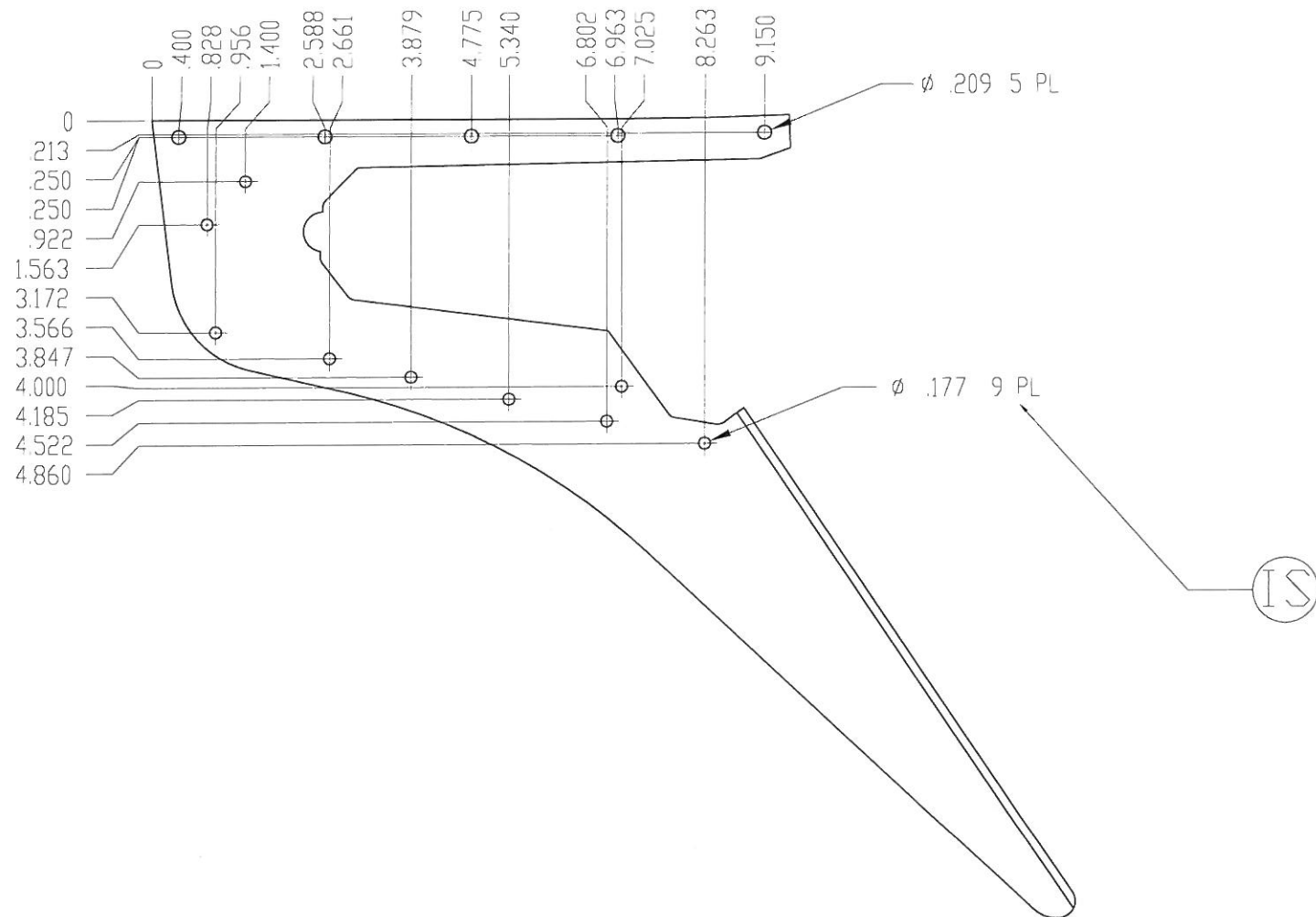


10	R	601.1541	19	LOCKNUT	MS21042L08
9	R	601.2764	38	WASHER	NAS1149FN832P
8	R	601.2765	19	SCREW	MS27039-0819
7	D	601.2766	2	RIVET	MS20470AD5-18
			,3001		
F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL/SPECIFICATION
DOCUMENTS EFFECTED:				CHANGE CATEGORY	DER REVIEW REQUIRED
<input type="checkbox"/> MDL <input checked="" type="checkbox"/> INSTALL INSTRU <input checked="" type="checkbox"/> ICA <input type="checkbox"/> FMS <input checked="" type="checkbox"/> BOM				<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

SHEET 3 IS:



F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL/SPECIFICATION
-----	----	-------------	-----	-------------	------------------------

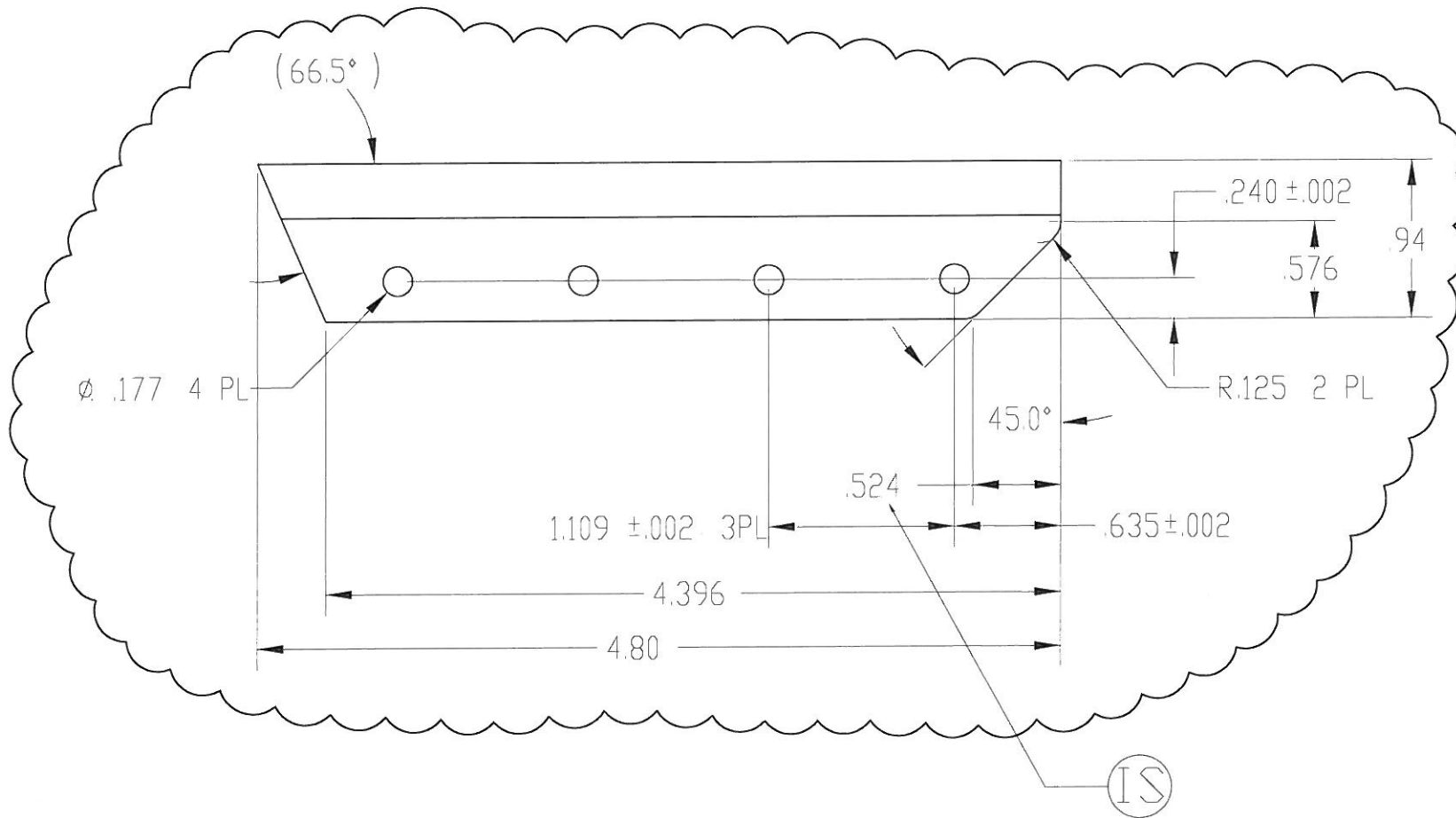
SHEET 5 IS:

SECTION F-F



F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL/SPECIFICATION

SHEET 6, ZONE C4, IS:



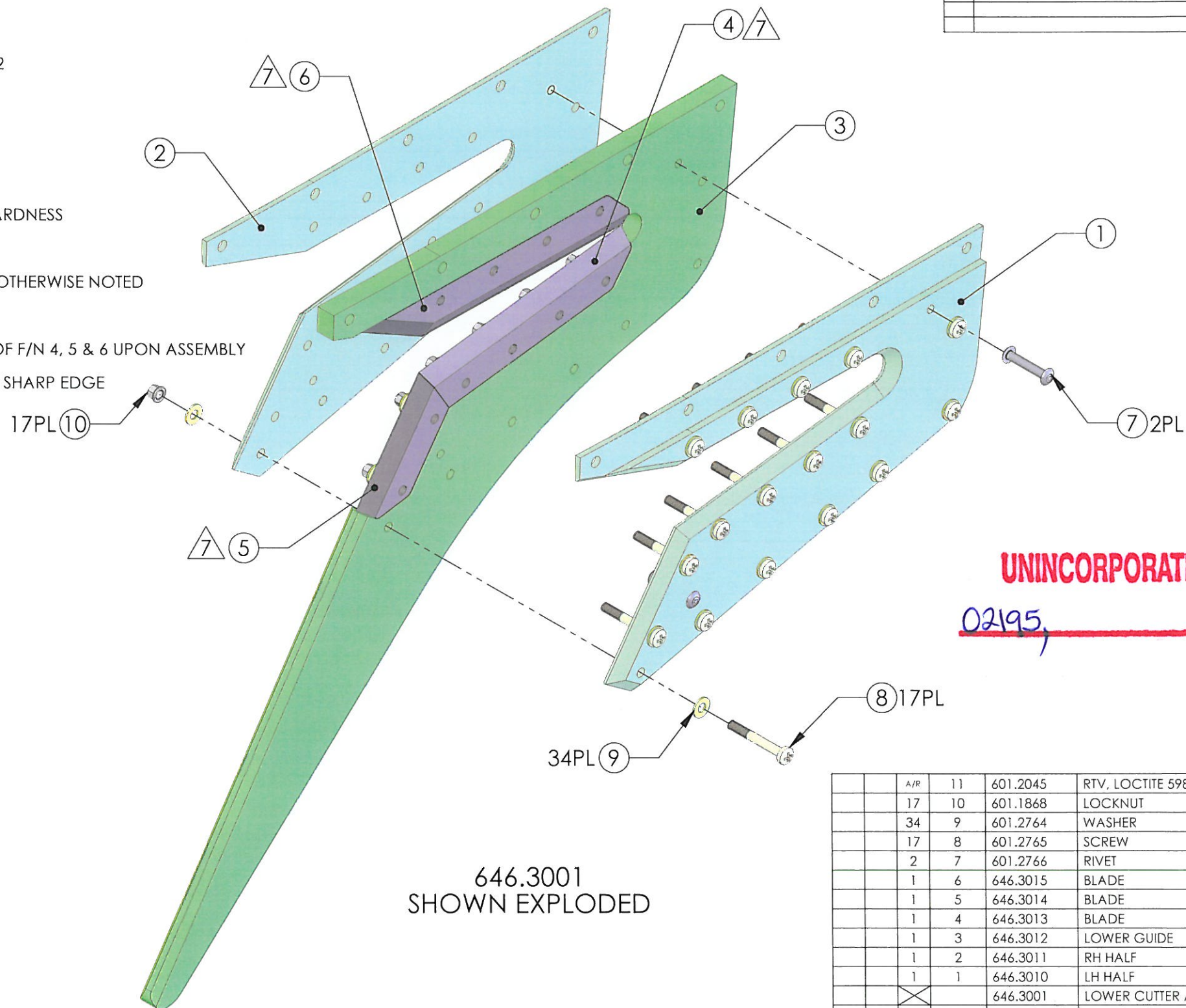
F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL/SPECIFICATION
-----	----	-------------	-----	-------------	------------------------



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NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK; CARDINAL 4860-50 PRETREATMENT PRIMER PRIME IAW MIL-P-23377J TYPE I CLASS N
- 3 MATERIAL: AISI A2 TOOL STEEL  
CONDITION: ANNEALED  
POST PROCESS: HEAT TREAT TO 58-62 Rc ROCKWELL HARDNESS
- 4 FINISH: PRIME IAW MIL-P-23377J TYPE I CLASS N
5. DEBURR AND BREAK ALL SHARP EDGES EXCEPT WHERE OTHERWISE NOTED
6. IDENTIFY IAW MPP-120
- 7 APPLY F/N 11 AS REQUIRED TO ALL FAYING SURFACES OF F/N 4, 5 & 6 UPON ASSEMBLY
- 8 CUTTING EDGE INTENDED TO BE SHARP, DO NOT BREAK SHARP EDGE



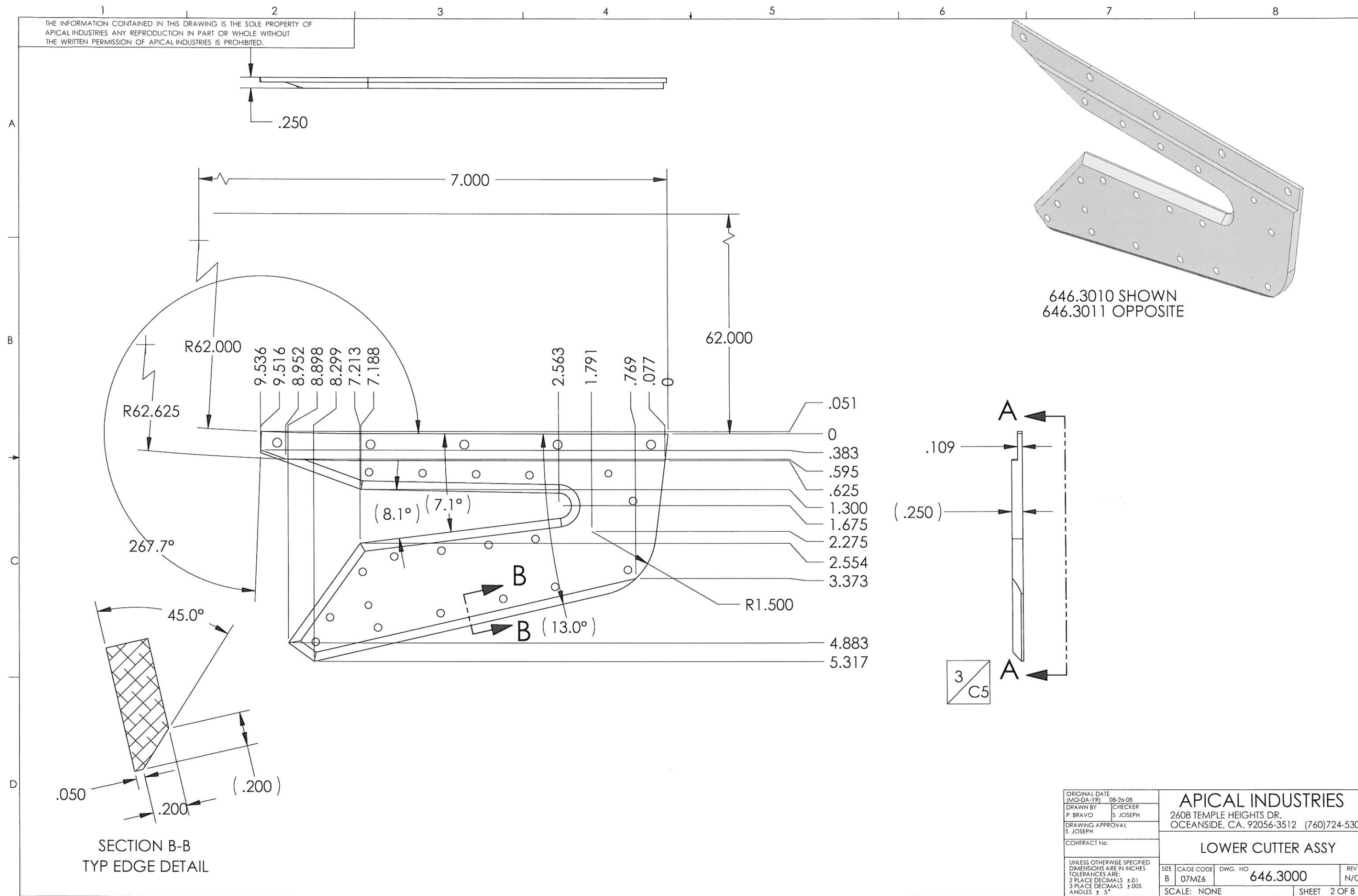
UNINCORPORATED ECN(s)

02195

646.3001  
SHOWN EXPLODED

QTY	A/R	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
	11	601.2045	RTV, LOCTITE 598			
	17	10	601.1868	LOCKNUT	MS21043-08	
	34	9	601.2764	WASHER	NAS1149FN832P	
	17	8	601.2765	SCREW	MS27039-0819	
	2	7	601.2766	RIVET	MS204070AD5-18	
	1	6	646.3015	BLADE	3	4
	1	5	646.3014	BLADE	3	4
	1	4	646.3013	BLADE	3	4
	1	3	646.3012	LOWER GUIDE	1	2
	1	2	646.3011	RH HALF	1	2
	1	1	646.3010	LH HALF	1	2
			646.3001	LOWER CUTTER ASSY		
QTY	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.	
PARTS LIST						
APICAL INDUSTRIES						
2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300						
LOWER CUTTER ASSY						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± 5°						
SIZE	CAGE CODE	DWG. NO.	REV.			
B	07MZ6	646.3000	N/C			
SCALE NONE				SHEET 1 OF 8		

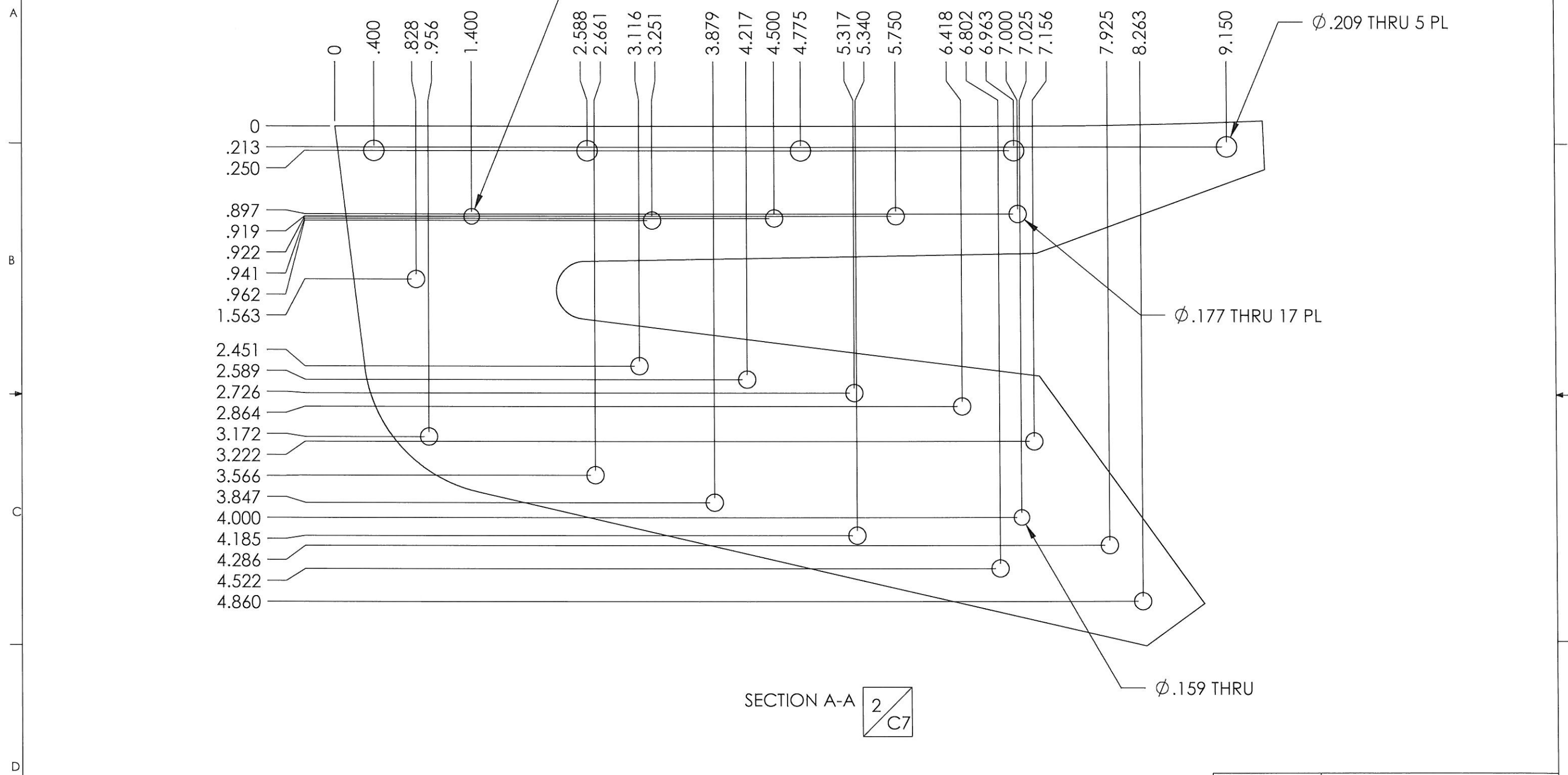
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ORIGINAL DATE (MO-DA-YR) 08-26-08		APICAL INDUSTRIES	
DRAWN BY P. BRAVO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER S. JOSEPH		LOWER CUTTER ASSY	
DRAWING APPROVAL S. JOSEPH			
CONTRACT No.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± 5°		SIZE B	REV. N/C
		CAGE CODE 07MZ6	DWG. NO. 646.3000
		SCALE: NONE	SHEET 2 OF 8

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

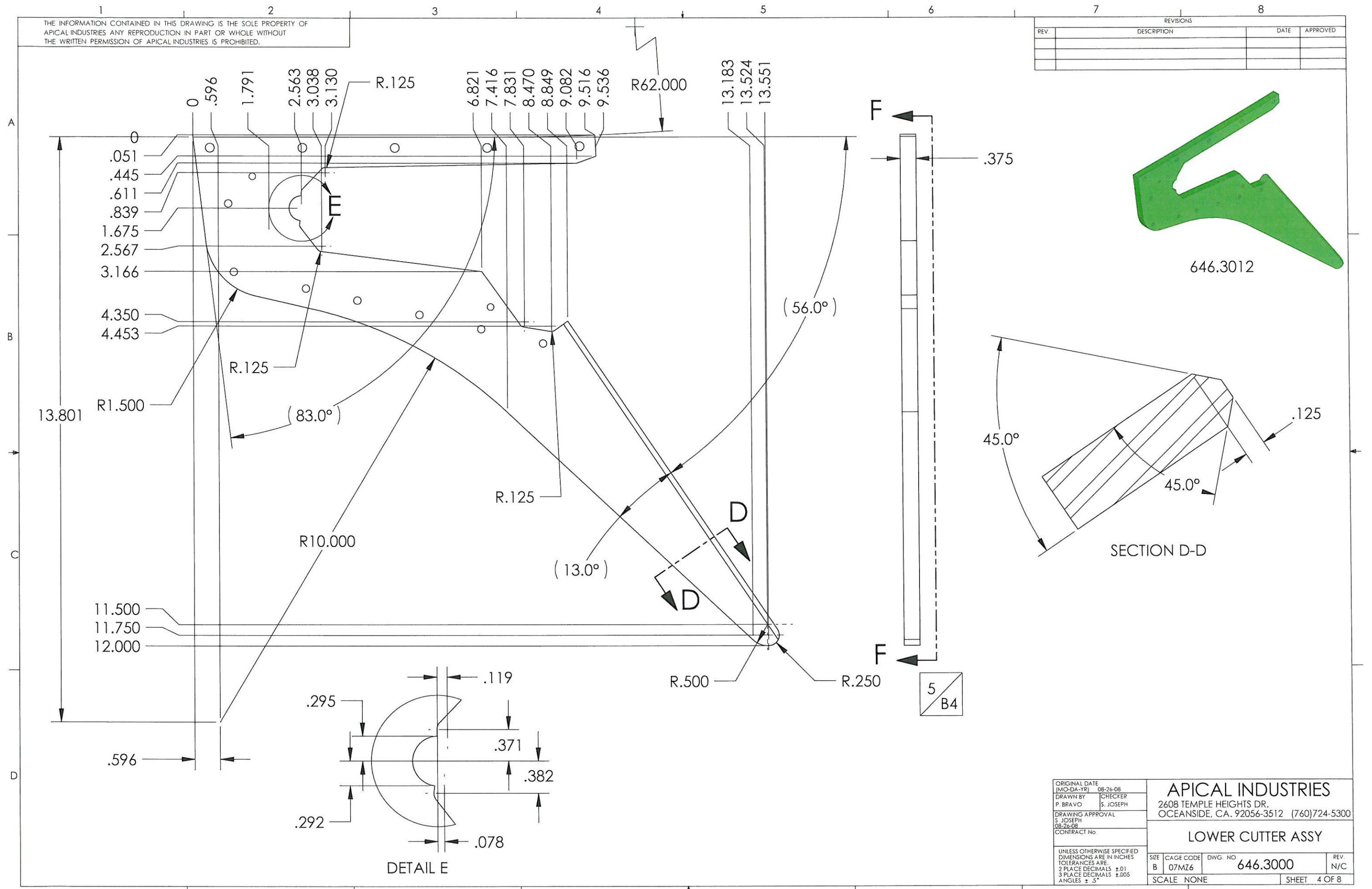


SECTION A-A 2/C7

ORIGINAL DATE (MO-DA-YR) 08-26-08	DRAWN BY P. BRAVO	CHECKER S. JOSEPH	DRAWING APPROVAL S. JOSEPH 08-26-08	CONTRACT No.	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°	SIZE B	CAGE CODE 07MZ6	DWG. NO. 646.3000	REV. N/C	SCALE NONE
SHEET 3 OF 8				LOWER CUTTER ASSY	



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



ORIGINAL DATE (MO-DA-YR) 08-26-08	
DRAWN BY P. BRAVO	CHECKER S. JOSEPH
DRAWING APPROVAL S. JOSEPH 08-26-08	
CONTRACT No.	

**APICAL INDUSTRIES**  
2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300

LOWER CUTTER ASSY

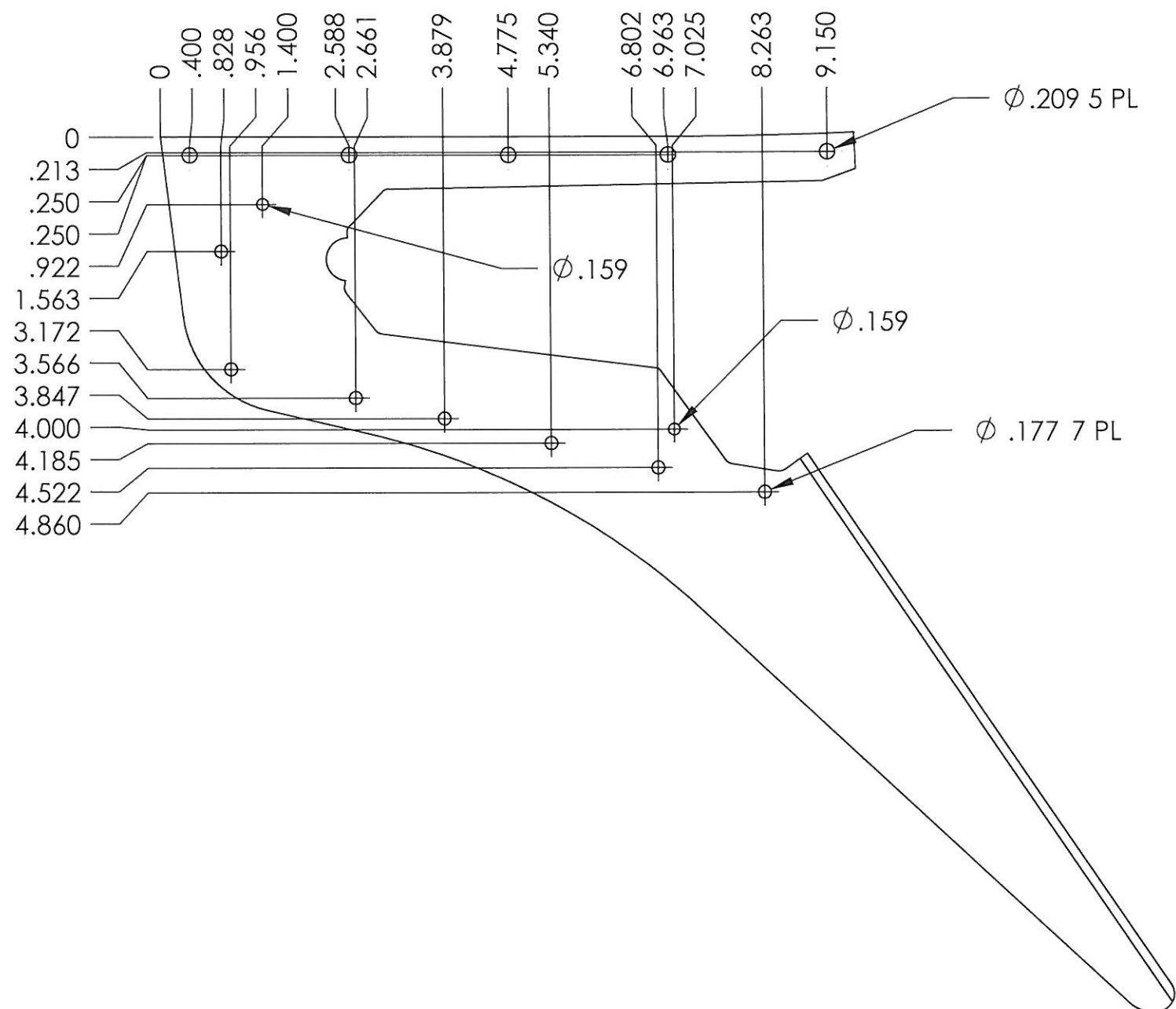
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS  $\pm .01$   
3 PLACE DECIMALS  $\pm .005$   
ANGLES  $\pm .5^\circ$

SIZE B	CAGE CODE 07MZ6	DWG. NO. 646.3000	REV. N/C
SCALE NONE		SHEET 4 OF 8	

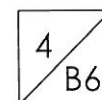


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REV.	DESCRIPTION	DATE	APPROVED



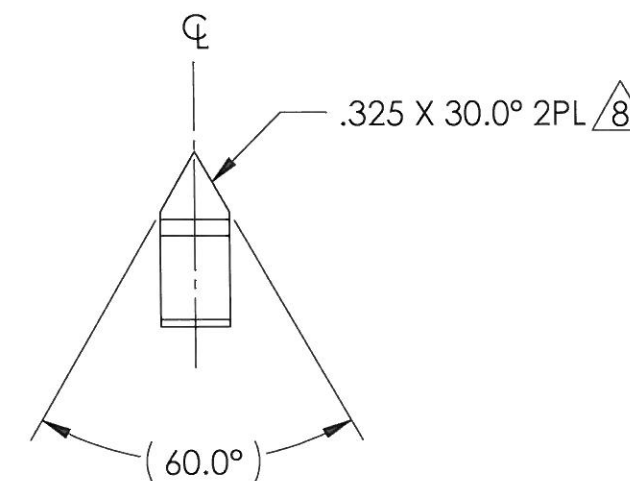
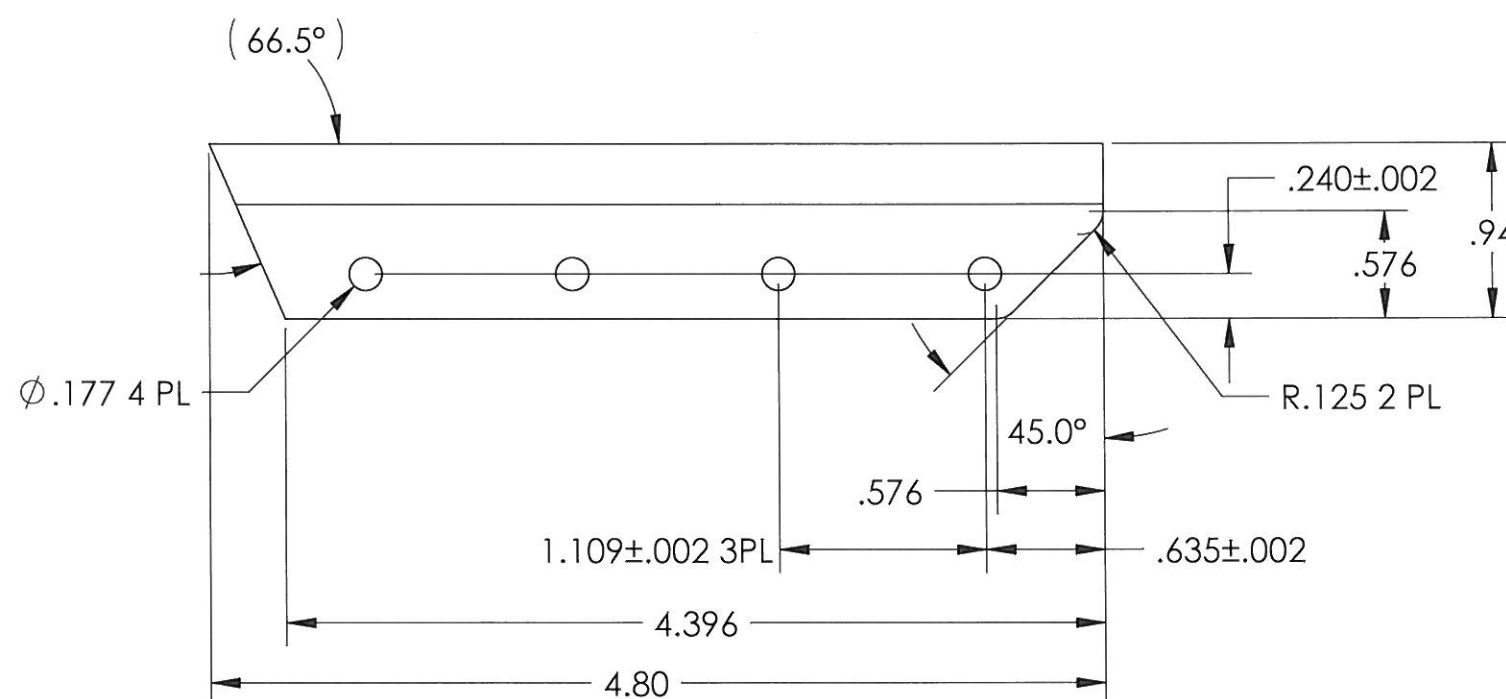
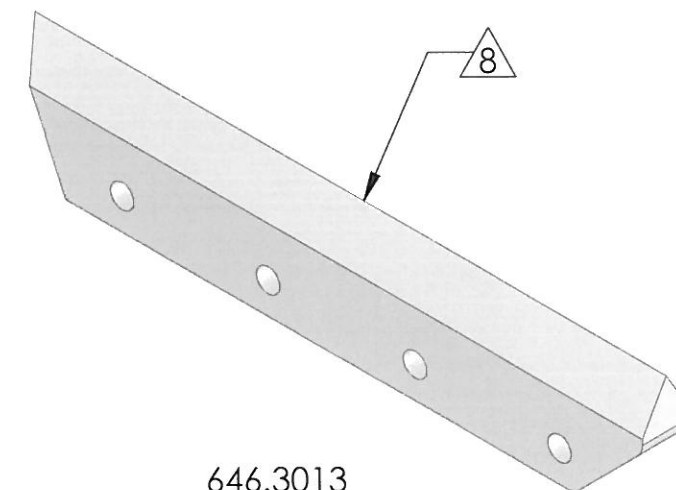
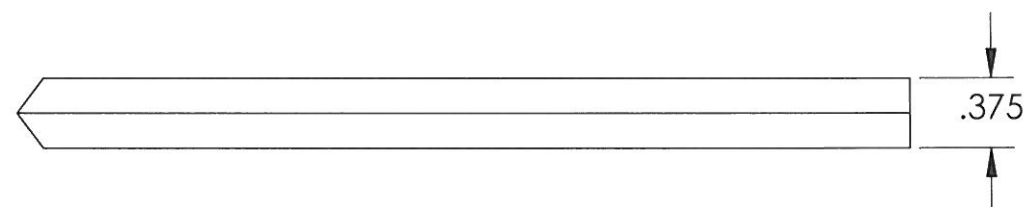
SECTION F-F



ORIGINAL DATE (MO-DA-YR) 08-26-08		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY P. BRAVO	CHECKER S. JOSEPH		
DRAWING APPROVAL S. JOSEPH 08-26-08		LOWER CUTTER ASSY	
CONTRACT No.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	REV N/C
		CAGE CODE 07MZ6	DWG. NO. 646.3000
		SCALE NONE	SHEET 5 OF 8

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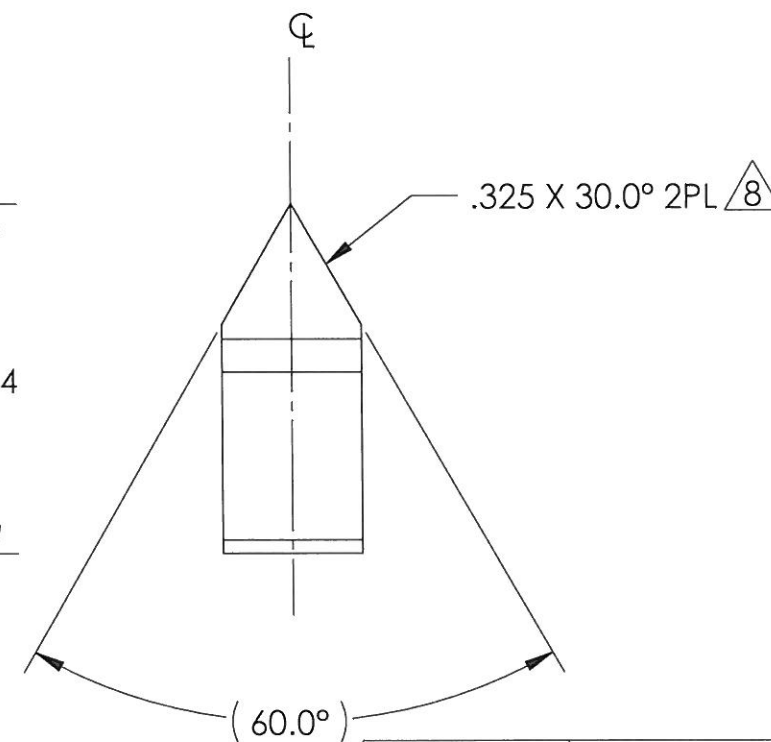
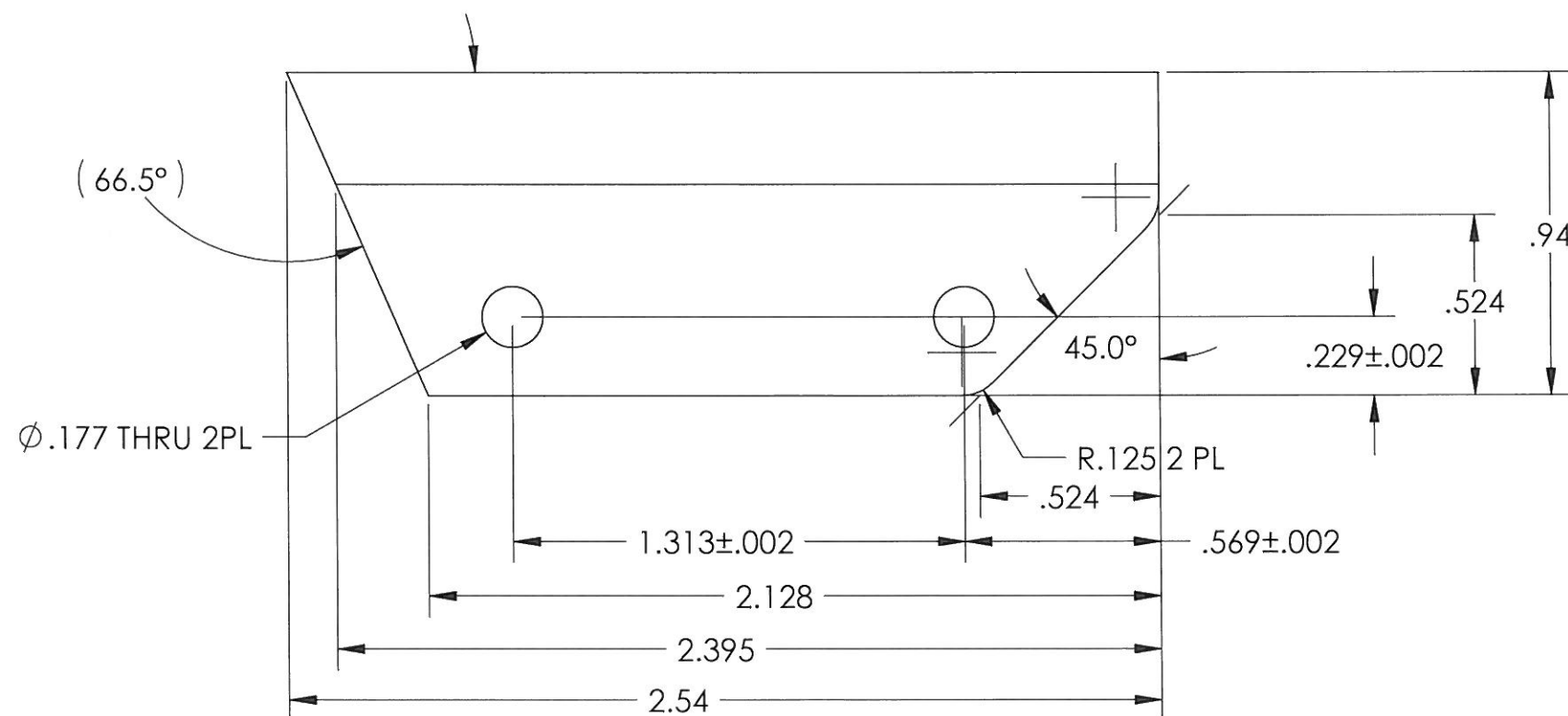
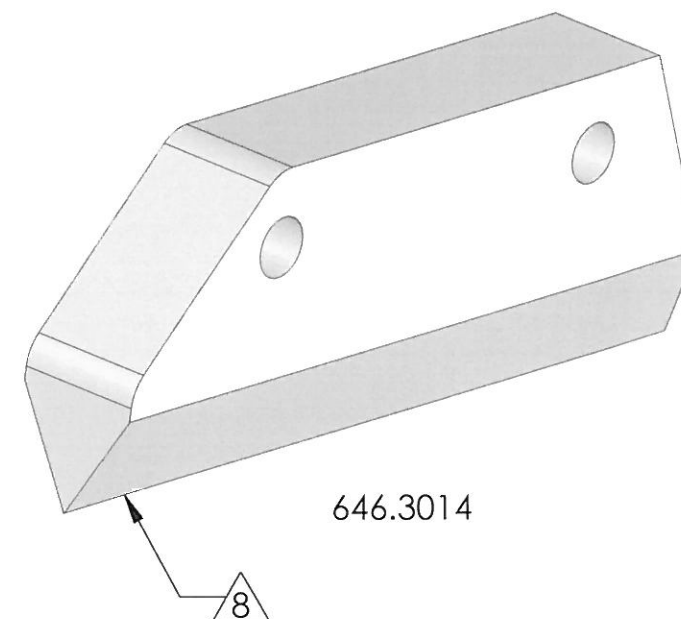
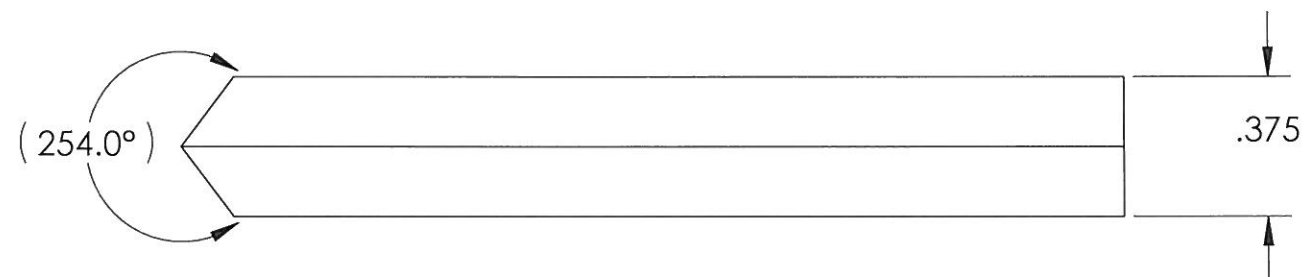
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



ORIGINAL DATE (MO-DA-YR) 08-26-08		APICAL INDUSTRIES	
DRAWN BY P. BRAVO	CHECKER S. JOSEPH	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL S. JOSEPH 08-26-08		LOWER CUTTER ASSY	
CONTRACT No.		SIZE B	REV. N/C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		CAGE CODE 07MZ6	DWG. NO. 646.3000
		SCALE NONE	SHEET 6 OF 8

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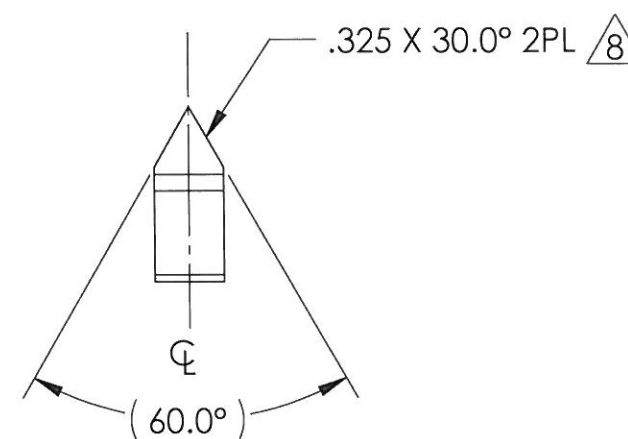
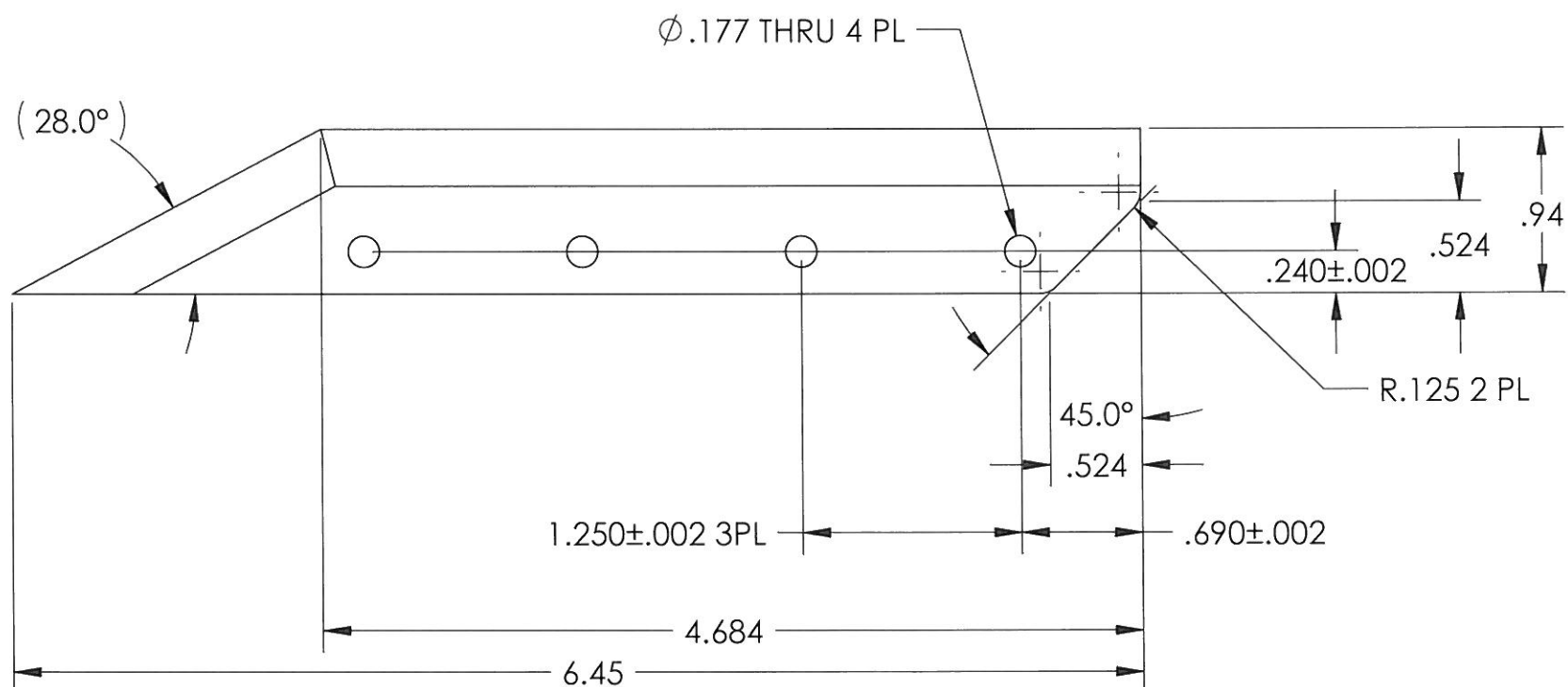
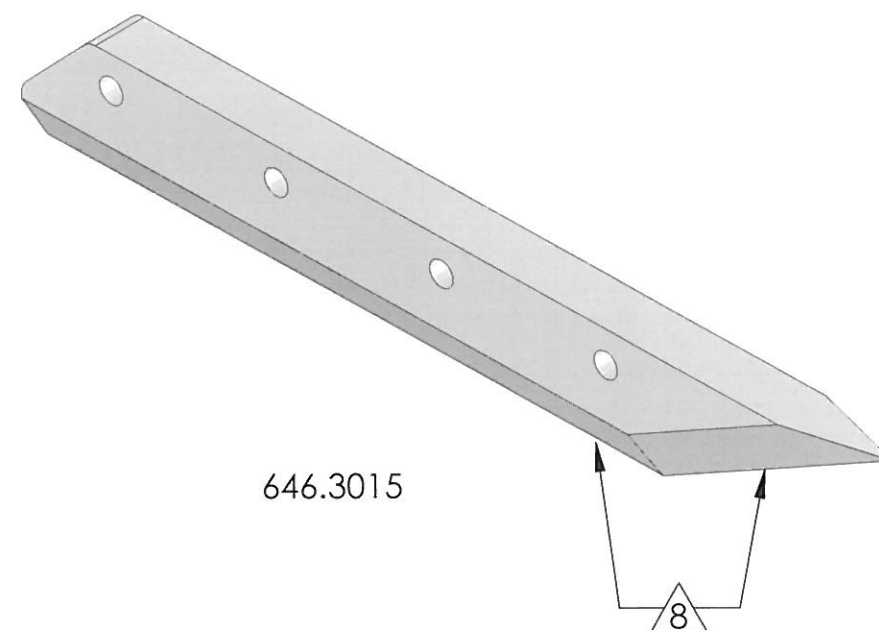
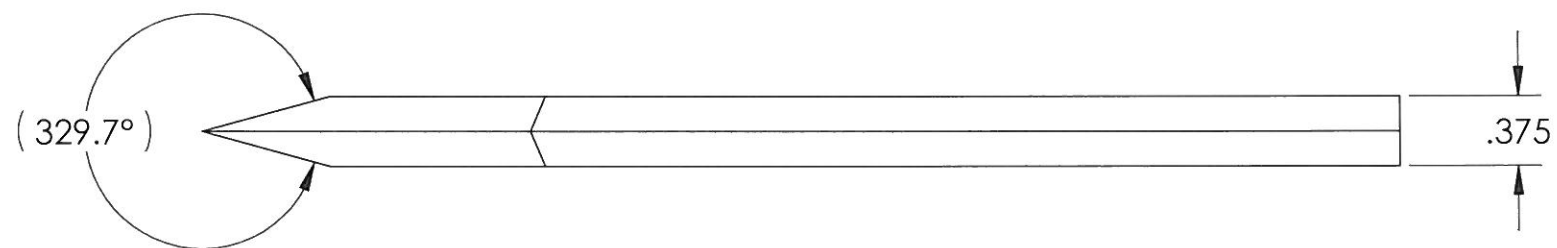
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



ORIGINAL DATE (MO-DA-YR) 08-26-08		APICAL INDUSTRIES	
DRAWN BY P. BRAVO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER S. JOSEPH		LOWER CUTTER ASSY	
DRAWING APPROVAL S. JOSEPH			
08-26-08			
CONTRACT No.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$		SIZE B	REV. N/C
CAGE CODE 07MZ6		DWG. NO. 646.3000	
SCALE NONE		SHEET 7 OF 8	

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ORIGINAL DATE (MO-DA-YR) 08-26-08		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300			
DRAWN BY P. BRAVO	CHECKER S. JOSEPH				
DRAWING APPROVAL S. JOSEPH 08-26-08		LOWER CUTTER ASSY			
CONTRACT No.					
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		SCALE NONE		SHEET 8 OF 8	